DEPARTMENT OF THE AIR FORCE
Headquarters US Air Force
Washington DC 20330

AFMS 38AC

1 July 1994

GROUND (BASE) RADIO MAINTENANCE

1. Mission Statement. Ground (Base) Radio technicians maintain radio equipment used primarily in the Air Traffic Control and Landing Systems (ATCALS), Radar Approach Control (RAPCON), Wing Command Post, Airfield Operations, and Emergency/Disaster Response functions. (This does not include Ultra-High/Very-High Frequency (UHF/VHF) air-to-ground radios associated with Navigational Aids (NAVAIDS) and Radio Relay equipment).

2. Authority. The 21-series of Air Force and command directives contain policy and procedural guidance for the Ground (Base) Radio Maintenance element. This element was developed in accordance with policy and procedures contained in AFR 4-1 and AFI 38-201.

3. Applicability. This element applies to peacetime operations only and to all units having this element except the following:

3.1. Combat Communications units.

3.2. Air National Guard and Air Force Reserve units.

3.3. Locations undergoing AFI 38-203 cost comparison studies. Both a positive and negative mission variance must be developed for all work within the organization that has undergone a cost comparison study.

4. Core Composition. The following factors were considered to determine the core manpower required for Ground (Base) Radio Maintenance:

4.1. A base population of 3055, 72 Primary Aircraft Assigned (PAA), located on a base comprising 3500 acres assumes a flying mission. To support this mission a suite of Ground (Base) Radio equipment needs to be provided to communicate with aircraft taking-off, landing, and navigating within the airspace controlled by the base.

4.2. The level of service provided to support wing flying hours of 16 hours per day, 7 days per week is single shift maintenance at 40 hours per week plus on call maintenance for unscheduled outages.

4.3. Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of standard indirect work are Supervision, Administration, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. (Refer to AFMS 00AA (Standard Indirect Description) for more detail.) Core man-hours for indirect work are computed in with equipment processes.

4.4. Man-hours for travel are included in the calculation for the core maintenance requirements by using the average monthly mileage in support of the core equipment.

4.5. Restoral priorities will be established and followed when personnel respond to multiple outages.

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4.6. Core Equipment Composition: The following lists the equipment groupings and numbers of equipment items supported for which the core requirement was computed (see attachment 4 for equipment types):

EQUIPMENT GROUPING	QUANTITY	FRACTIONAL MANPOWER
UHF/VHF Transmitter	28	.7400
UHF/VHF Receiver	28	.5228
VHF Transceiver	6	.1474
UHF Transceiver (Group B)	5	.1684
UHF/VHF Transceiver	2	.0322
Recorder/Reproducer (Group B)	7	1.0103
Control Monitor (Group A)	5	.1808
Control Monitor (Group B)	2	.0594
External Linear Power Amplifier	10	.3437
Antenna Tuning Unit Coupler	7	.0735
Control Tower Monitor (Group B)	1	.3333
RAPCON Positions	12	.8586
Console	1	.0703
Runway Surveillance Unit (RSU)	1	.2379
Communications Patch Panel	2	.0645
Portable Public Address (PA) Support	8	.5452
Permanent PA/Intercom Systems	*	.0571
Travel	1087	.7589
TOTAL FRACTIONAL MANPOWER		6.2042

* Based on total equipment and support man-hours.

4.6.1. Core Element Manpower Required: 7

4.6.2. Core Range: 3 - 31

4.6.3. Programming Factor: None

5. Core Composition Variables. The following variable factors need to be considered to determine changes to the core composition.

5.1. Increased authorizations in base population are assumed to support an increase of aircraft assigned. These increases are also assumed to increase at a rate of 24 aircraft, and their associated manpower, at a time. To support a single incremental increase of this size it is assumed that two additional radio frequencies will be required to communicate with the added aircraft.

5.2. Incremental increases in numbers of aircraft that becomes sufficiently large enough to warrant a second runway will require additional suites of equipment and a corresponding increase in manpower authorizations to support this added capability.

5.3. Temporary increases to assumed flying hours to support exercise scenarios of less than 60 days will have no impact on authorizations to support the assumed mission. MAJCOMs ensure that temporary increases of a longer duration are supported by temporary manpower increases to sustain this increased level of service.

5.4. Should an assumed capability, such as a RAPCON facility, be provided by an external agency, such as the Federal Aviation Agency (FAA), there will be a decrease in the suite of assumed equipment, with a subsequent reduction in the authorizations required to provide the Air Force's portion of this service.

5.5. Environmental variables such as propagation anomalies due to atmospheric phenomenon or a mountain range within a 30 Nautical Miles (NM) radius of the base must be considered when determining suites of equipment to support the assumed mission or subsequent changes to the assumed mission.

5.6. Other increases to base population that are not aligned with the base's original mission, support and flying of 72 PAA will be handled as a variance.

6. Standard Data:

6.1. Classification. Type III

6.2. Approval Date. 1 March 1993

6.3. Manpower Data Source. Workshop measurement.

6.4. Manpower Equation:

6.4.1. Equipment:

$$Yc = 4.2472(X1) + 3.0003(X2) + 3.9489(X3) + 5.4114(X4) + 2.5842(X5) + 27.059(X6) + 5.811(X7) + 4.7704(X8) + 5.5225(X9) + 1.6869(X10) + 53.5633(X11) + 11.4981(X12) + 11.2893(X13) + 38.2325(X14) + 5.1833(X15) + 10.9512(X16)$$

6.4.2. Permanent PA/Intercom Systems:

$$Yc = .0106(X17)$$

6.4.3. Travel:

$$Yc = .1122(X18)$$

6.5. Workload Factors:

6.5.1. Title:

6.5.1.1. X1 UHF/VHF Transmitter Group.

6.5.1.2. X2 UHF/VHF Receiver Group.

6.5.1.3. X3 VHF Transceiver Group.

6.5.1.4. X4 UHF Transceiver (Group B).

6.5.1.5. X5 UHF/VHF Transceiver Group.

6.5.1.6. X6 Recorder/Reproducers (Group B).

6.5.1.7. X7 Control Monitor Group (Group A).

6.5.1.8. X8 Control Monitor Group (Group B).

6.5.1.9. X9 External Linear Power Amplifier Group.

6.5.1.10. X10 Antenna Tuning Unit Coupler Group.

6.5.1.11. X11 Control Tower Monitor (Group B).

6.5.1.12. X12 RAPCON Positions.

6.5.1.13. X13 Console Group.

6.5.1.14. X14 Runway Surveillance Unit (RSU) Group.

6.5.1.15. X15 Communications Patch Panel Group.

6.5.1.16. X16 Portable PA Set-Ups.

6.5.1.17. X17 Total Equipment Man-hours.

6.5.1.18. X18 Miles Traveled.

6.5.2. Definition:

6.5.2.1. X1 The number of UHF/VHF Transmitter Group items maintained.

6.5.2.2. X2 The number of UHF/VHF Receiver Group items maintained.

6.5.2.3. X3 The number of VHF Transceiver Group items maintained. Do NOT count Scope Shield II Air Base Ground Defense (ABGD) items if equipment is contractor/vendor maintained. Scope Shield II is replacing Scope Shield I (ABGD) equipment, therefore, credit can only be given for one program or other. For Little Rock AFB AR, Ground (Base) Radio: Do NOT include ABGD/Security Police (SP) equipment, this equipment is accounted for under the Volant Scorpion variance.

6.5.2.4. X4 The number of UHF Transceiver (Group B) items maintained.

6.5.2.5. X5 The number of UHF/VHF Transceiver Group items maintained.

6.5.2.6. X6 The number of Recorder/Reproducer (Group B) items maintained.

6.5.2.7. X7 The number of Control Monitor (Group A) items maintained.

6.5.2.8. X8 The number of Control Monitor (Group B) items maintained.

6.5.2.9. X9 The number of External Linear Power Amplifier Group items maintained.

6.5.2.10. X10 The number of Antenna Tuning Unit Coupler Group items maintained.

6.5.2.11. X11 The number of Control Tower Monitor (Group B) items maintained. Count 1 per Control Tower facility. Do NOT include RAPCON equipment (OJ-314), this equipment is accounted for in workload factor X12 (RAPCON Positions). You should NOT have a count for Control Tower Monitor (Group A (V5)) and (Group B (X11)). Maintenance of Light Guns is included in the man-hour value for the Control Tower Monitor Group.

6.5.2.12. X12 The number of RAPCON Positions maintained.

6.5.2.13. X13 The number of Console Group items maintained.

6.5.2.14. X14 The number of Runway Surveillance Unit (RSU) Group items maintained. Maintenance of Light Guns is included in the man-hour value for the RSU Group.

6.5.2.15. X15 The number of Communications Patch Panel Group items maintained.

6.5.2.16. X16 The average monthly number of Portable PA set-ups performed supporting direct military duty events such as Commanders' Calls, dining ins/outs, change of command ceremonies, military recognition ceremonies, parades, and where the wing commander has tasked the unit to provide communications support for VIPs.

6.5.2.17. X17 The summation of Equipment man-hour values.

6.5.2.18. X18 The average monthly miles traveled. Do NOT include Ground Wave Emergency Network (GWEN) Quality Assurance Evaluator (QAE) travel, this is accounted for under the GWEN QAE variance.

6.5.3. Source:

6.5.3.1. X1 through X16 C-E Equipment Inventory List and/or physical inventory. Refer to attachment 4 for a list of equipment items by equipment groups.

6.5.3.2. X17 The summation of Equipment man-hour values (X1 through X16).

6.5.3.3. X18 Vehicle records documenting mileage of vehicles used by Ground (Base) Radio Maintenance in performance of their duties, maintained by Vehicle Control Officer/NCO, base Maintenance Control and Analysis (MC&A) Section personnel, or local logs maintained by work center.

6.6. Study Team:

6.6.1. Lead Technician:

MSgt Erasmus (Lead Technician), Mr Beck (Study Manager), AFCOMMET/MOMC.

6.6.2. Functional Representatives:

CMSgt Mackey, SMSgt Coleman, TIC/XRCR; MSgt Lidel, Det 1, CSC/CM; CMSgt Harmon, HQ TAC/SCMT; MSgt Schupe, HQ SAC/SCMT; MSgt Lavender, HQ ATC/LGMKF; MSgt Moore, HQ MAC/SCYM; MSgt Hall, HQ PACAF/SCLM.

6.6.3. Program Manager:

MSgt Deas, HQ AFMEA/MEMS.

7. Application Instructions:

7.1. If your location matches the core composition as outlined in paragraph 4.f., your core manpower requirements are 7 authorizations. If your location does NOT match the core composition (exactly), then the Element Application Worksheet at attachment 3 must be completed to determine your manpower requirements. Add any variances.

7.2. If a new system/equipment item has been installed and the system/equipment is not identified under one of the equipment groups at attachment 4, Element Equipment Item (By Equipment Group), a man-hour value will need to be developed by the base Management Engineering Team (MET). Use the following procedures:

7.2.1. Obtain Preventive Maintenance Inspection (PMI), repair, modification, equipment parts acquisition, and minor installation/removal man-hours for each new system/equipment item. Use technical estimates from the Ground Radio Communications technicians and/or the element (work center) supervisor. Include all applicable tasks identified under the Work Center Description at attachment 1.

7.2.2. Sum the man-hours and record them by end item and quantity, in attachment 3, Section 4, Additional Variances, on the Element Application Worksheet.

7.3. Divide the total computed allowed man-hours by the appropriate Man-hours Availability Factor (MAF) and OverLoad Factor (OLF) to find the fractional manpower requirement. Contact the base MET for applicable MAF.

7.4. Use current rounding rules to determine whole manpower requirements.

7.5. Skill and Grade Distribution. Determine skill and grade distribution using the Standard Manpower Table at attachment 2.

8. Statement of Conditions. This element has conditions that impact the work center's ability to perform core processes. Specific conditions have been incorporated in the computations of the manpower standard and are identified below:

8.1. Climatic Conditions. Extreme hot or cold temperatures impact the maintenance time on equipment as well as the frequency of repair actions. Snow and ice cause certain tasks to be done more frequently as well as increase travel time. Rain and humidity impact the frequency of corrosion control performed on equipment. Rain may also increase travel time.

8.2. Physical Conditions. This element is generally not located with the equipment serviced. Therefore, travel time is necessary to accomplish tasks associated with work processes. The age of the equipment directly impacts the frequency of the maintenance requirements.

8.3. Directed Performance Standards. Technical Orders (TOs) and workcards contain directed performance standards for tasks performed by this element. These standards were used in determining frequency of maintenance for PMIs.

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7 Attachments
1. Work Center Description
2. Standard Manpower Table
3. Application Worksheet
4. Equipment Items (By Equipment Group)
5. Variances
6. Process Analysis Summary (By Process)
7. Process Analysis Summary (By Equipment)

GROUND (BASE) RADIO MAINTENANCE

WORK CENTER DESCRIPTION

1. PERFORMS EQUIPMENT REPAIR: Receives and reviews notification of equipment malfunction. Coordinates with user. Gathers tools, test equipment, and technical data/documentation. Prepares work area. Troubleshoots (isolates) malfunction. Repairs equipment to include resetting, removing, replacing, aligning, adjusting, calibrating, lubricating, and cleaning equipment; treating corrosion; accomplishing performance check; and documenting action taken. Cleans work area. Stores tools, test equipment, and technical data. Prepares malfunctioning equipment for shipment to depot maintenance. Receives and inspects equipment after depot maintenance to include accomplishing performance check, and documenting action taken. Files documentation.

2. PERFORMS EQUIPMENT PREVENTIVE MAINTENANCE INSPECTION (PMI): Receives and reviews PMI schedule. Coordinates with user. Gathers tools, test equipment, and technical data/documentation. Prepares work area. Performs preventive maintenance inspection to include operational check, time change, lubrication, corrosion control check, visual inspection in accordance with (IAW) applicable technical data, and documents PMI results. Assists in quality control (QC) inspection by providing technical assistance and performing task(s) as requested. Cleans work area. Stores tools, test equipment, and technical data. Files documentation.

3. PERFORMS EQUIPMENT PARTS ACQUISITION. Researches and orders part associated with equipment preventive maintenance, equipment repair, equipment modification, and minor equipment installation/ removal.

4. PERFORMS TRAVEL. Performs associated travel to and from location of equipment requiring maintenance.

5. PERFORMS EQUIPMENT MODIFICATION: Receives and reviews modification documentation. Coordinates with user. Gathers tools, test equipment, modification material, spare parts, and technical data/documentation. Prepares work area. Performs equipment modification IAW applicable directive to include operational check and documenting action taken. Cleans work area. Stores tools, test equipment, spare parts, and technical data. Files documentation.

6. PERFORMS MINOR EQUIPMENT INSTALLATION/REMOVAL: Receives and reviews work requirement. Coordinates with requester. Gathers tools, test equipment, and technical data/documentation. Prepares work area. Performs minor installation/removal (or assists appropriate agency) to include operational check and documenting action taken. Cleans work area. Stores tools, test equipment, and technical data. Prepares/turns equipment into appropriate agency. Files documentation.

7. PERFORMS INSTALLATION OF PERMANENT BASE PUBLIC ADDRESS (PA) AND INTERCOM MAINTENANCE SYSTEM: Receives and reviews work requirement. Coordinates with requester. Gathers tools, test equipment, spare parts, and technical data/documentation. Prepares work area. Installs PA and intercom maintenance system to include operational check and documenting action taken. Maintains PA and intercom equipment after installation. Cleans work area. Stores tools, test equipment, spare parts, and technical data. Files documentation.

8. PROVIDES PORTABLE PUBLIC ADDRESS (PA) SUPPORT: Receives and reviews work requirement. Attends meeting. Gathers tools, test equipment, spare parts, and technical data/documentation. Installs/removes system to include operational check and documenting action taken. Cleans work area. Stores tools, test equipment, spare parts, and technical data. Files documentation.

STANDARD MANPOWER TABLE										
WORK CENTER/FAC Ground (Base) Radio Maintenance/38AC			APPLICABILITY MAN-HOUR RANGE							
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
Ground Radio Comm Crftmn	2E173	MSG					1	1	1	1	1
Ground Radio Comm Crftmn	2E173	TSG	1	1	1/1	1	1	1	1	1	2
Ground Radio Comm Jrnymn	2E153	SSG	1	1	1/2	2	2	2	2	2	2
Ground Radio Comm Jrnymn	2E153	SRA	1	1	2/2	2	2	2	3	3	3
Ground Radio Comm Apr	2E133	A1C		1	1/0	1	1	2	2	3	3
TOTAL			3	4	5/5*	6	7	8	9	10	11
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT							
Ground Radio Comm Crftmn	2E173	MSG	1	1	1	1	1	1	1	1	2
Ground Radio Comm Crftmn	2E173	TSG	2	3	3	3	3	3	3	3	3
Ground Radio Comm Jrnymn	2E153	SSG	3	3	3	4	4	4	5	5	5
Ground Radio Comm Jrnymn	2E153	SRA	3	3	4	4	5	5	5	5	5
Ground Radio Comm Apr	2E133	A1C	3	3	3	3	3	4	4	5	5
TOTAL			12	13	14	15	16	17	18	19	20

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STANDARD MANPOWER TABLE											
WORK CENTER/FAC Ground (Base) Radio Maintenance/38AC			APPLICABILITY MAN-HOUR RANGE								
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Ground Radio Comm Crftmn	2E173	MSG	2	2	2	2	2	2	2	2	2
Ground Radio Comm Crftmn	2E173	TSG	3	3	3	4	4	4	4	5	5
Ground Radio Comm Jrnymn	2E153	SSG	5	6	6	6	6	6	7	7	7
Ground Radio Comm Jrnymn	2E153	SRA	6	6	6	6	6	7	7	7	8
Ground Radio Comm Apr	2E133	A1C	5	5	6	6	7	7	7	7	7
TOTAL			21	22	23	24	25	26	27	28	29
AIR FORCE SPECIALTY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT								
Ground Radio Comm Crftmn	2E173	MSG	2	2							
Ground Radio Comm Crftmn	2E173	TSG	5	5							
Ground Radio Comm Jrnymn	2E153	SSG	7	8							
Ground Radio Comm Jrnymn	2E153	SRA	8	8							
Ground Radio Comm Apr	2E133	A1C	8	8							
TOTAL			30	31							

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GROUND (BASE) RADIO MAINTENANCE

APPLICATION WORKSHEET

INSTRUCTIONS: If you match the core "EQUIPMENT QUANTITY (QTY)" numbers (exactly), in Section 1 below, then you only need to complete Section 3, Section 4, and Section 5.A. of this worksheet to determine your manpower. If you do NOT match the core "EQUIPMENT QUANTITY (QTY)" numbers (exactly) in Section 1, then you need to complete Section 2, Section 3, Section 4, and Section 5.B. of this worksheet to determine your manpower. For workload factor titles, definitions, and sources of count, see paragraph 6 of the basic AFMD.

SECTION 1. CORE MAN-HOUR CALCULATIONS:

GROUP NUMBER	EQUIPMENT GROUP	EQUIPMENT QTY	X	EQUIPMENT VALUE	=	EQUIPMENT MAN-HOURS
1	UHF/VHF Transmitters	28		4.2472		118.9216
2	UHF/VHF Receivers	28		3.0003		84.008
3	VHF Transceivers	6		3.9489		23.6934
4	UHF Transceivers (Group B)	5		5.4114		27.057
5	UHF/VHF Transceivers	2		2.5842		5.1684
6	Recorder/Reproducers (Group B)	6	27.059	162.354		
7	Control Monitor Group (Group A)	5		5.811		29.055
8	Control Monitor Group (Group B)	2	4.7704	9.5408		
9	External Linear Power Amplifiers	10		5.5225		55.225
10	Antenna Tuning Unit Couplers	7		1.6869		11.8083
11	Control Tower Monitor (Group B)	1	53.5633	53.5633		
12	RAPCON Positions	12		11.4981		137.9772
13	Console	1		11.2893		11.2893
14	Runway Surveillance Unit (RSU)	1		38.2325		38.2325
15	Communications Patch Panels	2		5.1833		10.3666
16	Portable PA set-ups (monthly)	8		10.9512		87.6096
17	Equipment and support man-hours					865.8704
	Permanent PA/Intercom Systems (Note 1)					9.1782
18	Travel (Note 2)					121.9614
	TOTAL CORE MAN-HOURS AUTHORIZED					997.0100

NOTE 1: Permanent PA/Intercom Systems man-hours are determined by multiplying equipment and support man-hours by a factor of .0106 (865.8704 x .0106).

NOTE 2: Travel man-hours are calculated by averaging the last 12 months mileage (average monthly miles) traveling to and from locations of equipment requiring maintenance. Multiply the average monthly mileage by .1122 (1087 X .1122). Do NOT include travel associated with Ground Wave Emergency Network (GWEN) Quality Assurance Evaluator (QAE), this is accounted for under the GWEN QAE variance.

SECTION 2. CORE VARIABLE MAN-HOUR CALCULATIONS:

GROUP NUMBER	EQUIPMENT GROUP	EQUIPMENT QTY	X	EQUIPMENT VALUE	=	EQUIPMENT MAN-HOURS
1	UHF/VHF Transmitters	____		4.2472		_____
2	UHF/VHF Receivers	_____		3.0003		_____
3	VHF Transceivers	* _____		3.9489		_____
4	UHF Transceivers (Group B)	*** _____		5.4114		_____
5	UHF/VHF Transceivers	_____		2.5842		_____
6	Recorder/Reproducers (Group B)	_____		27.059		_____
7	Control Monitor Group (Group A)	_____		5.811		_____
8	Control Monitor Group (Group B)	_____		4.7704		_____
9	External Linear Power Amplifiers	_____		5.5225		_____
10	Antenna Tuning Unit Couplers	_____		1.6869		_____
11	Control Tower Monitor (Group B)	** _____		53.5633		_____
12	RAPCON Positions	_____		11.4981		_____
13	Console	*** _____		11.2893		_____
14	Runway Surveillance Unit (RSU)	_____		38.3235		_____
15	Communications Patch Panels	_____		5.1833		_____
16	Portable PA set-ups (see Note 3)	_____		10.9512		_____

TOTAL CORE VARIABLE EQUIPMENT AND SUPPORT MAN-HOURS _____

* For Little Rock AFB AR, Ground (Base) Radio: Do NOT include Air Base Ground Defense (ABGD)/Security Police (SP) equipment, this equipment is accounted for under the Volant Scorpion variance.

* Do NOT count Scope Shield II (ABGD) equipment if contractor/vendor maintained. Scope Shield II is replacing Scope Shield I (ABGD) equipment, therefore, credit can only be given for one program or other.

** 1 per Control Tower facility. Do NOT include RAPCON equipment (OJ-314), this equipment is accounted for in workload factor X12 (RAPCON Positions). You should NOT have a count for Control Tower Monitor (Group A (V5)) and (Group B (X11)).

*** Include Alert Aircraft Communication Equipment (AACE).

NOTE 3: Use the monthly average from the past 6 to 12 months data. Only count direct military duty events such as Commanders' Calls, dining ins/outs, change of command ceremonies, military recognition ceremonies, parades, and where the wing commander has tasked the unit to provide communications support for VIPs.

SECTION 3. VARIANCE MAN-HOUR CALCULATIONS: (Refer to attachment 5, Variances, for applicable locations.)

A. NON-CORE EQUIPMENT:

GROUP NUMBER	EQUIPMENT GROUP	EQUIPMENT QTY	X	EQUIPMENT VALUE	=	EQUIPMENT MAN-HOURS
V1	HF Receiver	_____		9.6421		_____
V2	HF Transceiver	_____		14.2639		_____
V3	UHF Transceivers (Group A)	_____		6.4287		_____
V4	Recorder/Reproducers (Group A)	_____		29.3425		_____
V5	Control Tower Monitor (Group A)	**		36.0838		_____
V6	Facsimile	_____		13.0418		_____
V7	Field Phone	*		1.5936		_____
V8	Phone Patch	_____		2.5651		_____

TOTAL NON-CORE EQUIPMENT MAN-HOURS _____

17 TOTAL CORE VARIABLE EQUIPMENT AND SUPPORT MAN-HOURS (Section 2) and TOTAL NON-CORE EQUIPMENT MAN-HOURS _____

* For Little Rock AFB AR, Ground (Base) Radio: Do NOT include ABGD/SP equipment, this equipment is accounted for under the Volant Scorpion variance.

** 1 per Control Tower facility. Do NOT include RAPCON equipment (OJ-314), this equipment is accounted for in workload factor X12 (RAPCON Positions). You should NOT have a count for Control Tower Monitor (Group A (V5)) and (Group B (X11)).

Permanent PA/Intercom Systems (Calculation:
Multiply TOTAL CORE VARIABLE EQUIPMENT AND SUPPORT MAN-HOURS AND TOTAL NON-CORE EQUIPMENT MAN-HOURS by .0106)

_____ X . 0106 _____

18 Travel (Calculation: (See Note 2 above) Multiply Average Monthly Mileage by .1122.)

_____ X . .1122 _____

TOTAL SUPPORT MAN-HOURS (TOTAL CORE VARIABLE EQUIPMENT AND SUPPORT MAN-HOURS + TOTAL NON-CORE EQUIPMENT MAN-HOURS + Permanent PA/Intercom + Travel) _____

B. OTHER VARIANCES:

VARIANCE TITLE	EQUIPMENT QTY	X	EQUIPMENT VALUE	=	EQUIPMENT MAN-HOURS
V9 LF Receiver Equipment Maintenance (AN/FRR-98, AN/GRC-219 (GWEN))	_____	X	10.36		_____
V10 Mobile Antenna Equipment Maintenance (AN/GRA-4)	_____	X	4.786		_____
V11 Air Force Satellite Communication (AFSATCOM) Equipment Maintenance (AN/GSC-42)	_____	X	21.74		_____
V12 BRITE II/DBRITE Equipment Maintenance (AN/GPA-133, FA-10221/2/3/4)	(CONSTANT MAN-HOURS)		52.84		_____
V13 Range Scoring Equipment Maintenance (CONSTANT MAN-HOURS)			95.88		_____
V14 Airfield Survival Measures (ASM) Systems Equipment Maintenance (CONSTANT MAN-HOURS)			82.55		_____
V15 URC-110 and Alternate Command Post Deployment	*	X	2.058		_____

*Number of Deployments

V16 Deviation for Permanent PA Support
[illegible] Attachment 5 for specific location values. **

V17 Ground Wave Emergency Network (GWEN) Quality Assurance Evaluator (QAE) (Calculation: Multiply 1 by MAF by OLF) 1 X ____ X _____ _____

V18 Regency Net Support (AN/TRC-179) (Calculation: Multiply 5 by MAF by OLF) 5 X ____ X _____ _____

V19 Rapid UHF Satellite Communications (RUSCOM)/ AFSATCOM Support (Calculation: Multiply 4 by MAF by OLF)	4 X	X		
V20 Volant Scorpion Support (Calculation: Multiply 1 by MAF by OLF)	1 X	X		
V21 Copper Flag/William Tell Exercise Support (CONSTANT MAN-HOURS)			18.0	
V22 USSOUTHCOM Support (Calculation: Multiply 3 by MAF by OLF)	3 X	X		
V23 Cryptological Equipment Maintenance (AN/KG-84)		X	.4507	
V24 Maintenance of RSU Designed for Air Training Command		X	11.29	
V25 Closed Circuit Television (CCTV) Maintenance **Refer to variance at attachment 5 for specific location values.	**		`	
V26 High Frequency Regional Broadcast (HFRB) Maintenance (CONSTANT MAN-HOURS)			75.0	
V27 Nonhardened Antenna Maintenance (Calculation: Determine individual Antenna man-hours. Sum the individual man-hours and multiply the summation by 4.515)				
HF Non-rotatable		X	.298	
HF Rotatable		X	2.316	
VHF		X	.110	
UHF		X	.156	
SUMMATION OF NONHARDENED ANTENNA MAN-HOURS				
SUMMATION MHRS		X	4.515	
V28 Inter Island Travel (CONSTANT MAN-HOURS)			25.71	
V29 Secure Communications Systems Maintenance (CONSTANT MAN-HOURS) **Refer to variance at attachment 5 for specific location values.			**	

V30 Land Mobile Radio (LMR) Maintenance (CONSTANT MAN-HOURS) **Refer to variance at attachment 5 for specific location values.			**	_____
V31 Senior Executive Support Service Radio Maintenance (SENEX) (CONSTANT MAN-HOURS)			803.5	_____
V32 Global Radio Maintenance (CONSTANT MAN-HOURS)			482.1	_____
V33 E-System Console Maintenance (CONSTANT MAN-HOURS)			2249.8	_____
V34 Simultaneous Interpretation System (SIS) (CONSTANT MAN-HOURS)			160.7	_____
V35 Military Affiliate Radio System (MARS)/ Inter-American Telecommunications System of the Air Forces (SITFA) Ancillary Equipment Maintenance (CONSTANT MAN-HOURS)			41.5	_____
V36 E-System Network Control Station (CONSTANT MAN-HOURS)			642.8	_____
V37 Base Installation Security System (BISS) Maintenance (CONSTANT MAN-HOURS)			321.4	_____
V38 Low Frequency Transmitter/ Receiver (GRC-218 Input/Output) Equipment Maintenance	_____	X	7.75	_____
V39 Improved High Altitude Radiation Detection System Equipment Maintenance	_____	X	3.37	_____
V40 High Frequency Transmitter/ Receiver (GRC-212) Alert Control Panel) Equipment Maintenance	_____	X	.90	_____

TOTAL OTHER VARIANCE MAN-HOURS _____

SECTION 4. ADDITIONAL VARIANCES:

VARIANCE TITLE	EQUIPMENT QTY	X	EQUIPMENT VALUE	=	EQUIPMENT MAN-HOURS

TOTAL ADDITIONAL VARIANCE MAN-HOURS _____

SECTION 5. MANPOWER CALCULATION:

A. CORE MANPOWER:

SUM SECTION 1. (TOTAL CORE MAN-HOURS AUTHORIZED), SECTION 3.A.(TOTAL NON-CORE EQUIPMENT MAN-HOURS), SECTION 3.B. (TOTAL OTHER VARIANCE MAN-HOURS), and SECTION 4. (TOTAL ADDITIONAL VARIANCE MAN-HOURS) TO DETERMINE TOTAL MAN-HOURS.

TOTAL MAN-HOURS _____

DIVIDE TOTAL MAN-HOURS BY THE APPROPRIATE MAF AND OLF TO DETERMINE FRACTIONAL MANPOWER.

FRACTIONAL MANPOWER _____

USE CURRENT ROUNDING RULES TO DETERMINE WHOLE MANPOWER

WHOLE MANPOWER _____

B. CORE VARIABLE MANPOWER:

SUM SECTION 3.A. (TOTAL CORE VARIABLE EQUIPMENT AND SUPPORT MAN-HOURS (Section 2) and TOTAL NON-CORE EQUIPMENT MAN-HOURS), SECTION 3.B. (TOTAL OTHER VARIANCE MANHOURS), and SECTION 4. (TOTAL ADDITIONAL VARIANCE MAN-HOURS) TO DETERMINE TOTAL MAN-HOURS.

TOTAL MAN-HOURS _____

DIVIDE TOTAL MAN-HOURS BY THE APPROPRIATE MAF AND OLF TO DETERMINE FRACTIONAL MANPOWER.

FRACTIONAL MANPOWER _____

USE CURRENT ROUNDING RULES TO DETERMINE WHOLE MANPOWER

WHOLE MANPOWER _____

GROUND (BASE) RADIO MAINTENANCE

EQUIPMENT ITEMS (By Equipment Group)

A. CORE EQUIPMENT GROUPS:

CORE
EQUIPMENT
GROUP
NUMBERS.

1 UHF/VHF TRANSMITTER EQUIPMENT GROUP

GRT-21 GRT-22

2 UHF/VHF RECEIVER EQUIPMENT GROUP

FRG-9600 GRR-24 GRR-23

3 VHF TRANSCEIVER EQUIPMENT GROUP

ARC-186	PRC-126
GE-PHOENIX	PRC-128
GRC-175	PRC-139**
GRC-211	RT-551A
GRC-238**	RT-661A
IC-28H	SKY-515
OF-228/U**	TRC-199**
PRC-25	URC-46
PRC-68*	URC-47
PRC-77*	YAESU FT-5200

Do NOT count Scope Shield II (ABGD (**)) if contractor/vendor maintained. Scope Shield II is replacing Scope Shield I (ABGD (*)) equipment, therefore, credit can only be given for one program or other.

For Little Rock AFB AR, Ground (Base) Radio: Do NOT include ABGD/SP equipment, this equipment is accounted for under the Volant Scorpion variance.

4 UHF TRANSCEIVER EQUIPMENT (GROUP B)

* GRC-171

* Include Alert Aircraft Communication Equipment (AACE).

5 UHF/VHF TRANSCEIVER EQUIPMENT GROUP

LST-5	TRC-187
PRC-113	URC-101
RT-1319	URC-104
TRC-176	URC-110
TRC-177	

6 RECORDER/REPRODUCER EQUIPMENT (GROUP B)

CDD-1000(ATIS)	Tape Deck
Dict 5000	TASCAM
Dict 9000	Technics M-85
DVA-1000	TEAC AD-3
GSH-56	TD-2903 (Degausser)
GSH-57	TP-1510
GSH-58	RP-343
GSH-59	Stancile Series
GSH-343	201E
JVC KD-V601	401E
Memo-MR	403E
MR-333R(ATIS)	

7 CONTROL MONITOR EQUIPMENT (GROUP A)

C-1737	C-10902
C-7000	Control Set
C-7999	GRA-116
C-10639	

8 CONTROL MONITOR EQUIPMENT (GROUP B)

C-11329	OK-402
C-11070/TSC	OK-423
HF-8092	OK-480
GRA-81	RF-7405
GRA-83	270K-1
GRA-115	312B-4
GS-1331	19092-1

9 EXTERNAL LINEAR POWER AMPLIFIER EQUIPMENT GROUP

AM-6154	AM-8023
AM-6155	HF-8020
AM-7221	30L-1
AM-7223	30S-1
AM-7224	500W
AM-7399	1000W

10 ANTENNA TUNING UNIT COUPLER EQUIPMENT GROUP

ATS-2B	CU-2397
CU-547	F-601A
CU-1383	URA-27A
CU-2274	URA-38
CU-2310	

11 CONTROL TOWER MONITOR (GROUP B)

OJ-314/GSC-37 (1 per Control Tower facility)

Note: Maintenance for Light Guns is included in the man-hour value for the Control Tower Monitor.
* Include Alert Aircraft Communication Equipment (AACE).

Do NOT include RAPCON equipment (OJ-314), this equipment is accounted for in workload factor X12 (RAPCON Positions). You should NOT have a count for Control Tower Monitor (Group A (V5)) and (Group B (X11)).

12 RAPCON POSITIONS

Airport Surveillance Radar	Precision Approach Radar
Flow Coordinator	Stage Coordinator
Clearance Delivery	Various Assistant Positions
Supervisor	Maintenance Position
Supervisor of Flying	

13 CONSOLE EQUIPMENT GROUP

ASM-Comm	OJ-512
Creek Standard	OJ-610*
FRC-19	Wescom
Locally Manufactured	

* Include AACE.

14 RUNWAY SURVEILLANCE UNIT (RSU) EQUIPMENT GROUP

AW-1	MRN-20A
FA-3702	TRN-42

Note: Maintenance for Light Guns is included in the man-hour value for the RSU.

15 COMMUNICATIONS PATCH PANEL EQUIPMENT GROUP

Audio Test & Patch	OA-449
FSA-4	Rivet Switch
Locally Manufactured	SB-2833
OA-447	

B. NON-CORE EQUIPMENT GROUPS:

NON-CORE EQUIPMENT GROUP NUMBERS.

(Note: See Variances at attachment 5)

V1 HF RECEIVER EQUIPMENT GROUP

GC-1000	R-2420
GSB-900	RA-6790
R-2174 (RACAL)	TRQ-35

V2 HF TRANSCEIVER EQUIPMENT GROUP

FRC-153	PRC-104
HF-8014	PT/TR-7
HF-8030	RT-524
HF-8060	RT-1446
HF-8070	URC-92
KWM-2A	URC-103
MD-1258	URC-119
PP-7913	URC-120

V3 UHF TRANSCEIVER EQUIPMENT (GROUP A)

ARC-164	URC-80

V4 RECORDER/REPRODUCER EQUIPMENT (GROUP A)

GSH-35

V5 CONTROL TOWER MONITOR (GROUP A)

GSA-135 (1 per Control Tower facility)

Note: Maintenance for Light Guns is included in the man-hour value for the Control Tower Monitor.

Do NOT include RAPCON equipment (OJ-314), this equipment is accounted for in workload factor X12 (RAPCON Positions). You should NOT have a count for Control Tower Monitor (Group A (V5)) and (Group B (X11)).

V6 FACSIMILE EQUIPMENT GROUP

AFDIGS-9500	UXC-4
AFDIGS-9600	UXC-7
GGM-21A	850RV
Laser Fax (LFAX)	850TX-G02
MDL-850R	

V7 FIELD TELEPHONE EQUIPMENT GROUP

C-8024C	TA-213
FSK-Phone	TA-263
GRA-6	TA-312
TA-43	TA-938

NOTE: For Little Rock AFB AR, Ground (Base) Radio work center will NOT include ABGD/SP equipment in this count. These equipment items have been accounted for under the Volant Scorpion variance.

V8 PHONE PATCH EQUIPMENT GROUP

C-7070	SB-1212
FTA-13	SB-3614
FTA-28	MDF/IDF
SB-22	108-3M
SB-86	302A
SB-270	1280A

GROUND (BASE) RADIO MAINTENANCE

VARIANCES

1. Title. Positive Mission Variance for HF Receiver Equipment Maintenance.

1.1. Definition. Maintenance of HF receiver equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

1.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	9.64
Andrews AFB MD	89 CG	19.28
Beale AFB CA	9 CS	9.64
Bitburg AB GE	36 CS	134.99
Edwards AFB CA	650 CCSG	38.57
Holloman AFB NM	49 CS	19.28
K I Sawyer AFB MI	410 CS	9.64
Lajes FLD PO	65 SW	9.64
McClellan AFB CA	652 CCSG	9.64
McConnell AFB KS	384 CS	19.28
McGuire AFB NJ	438 AW	9.64
Offutt AFB NE	55 CG	19.28
Plattsburgh AFB NY	380 CS	9.64
Scott AFB IL	375 AW	9.64
Shaw AFB NC	363 CS	9.64
Sheppard AFB TX	82 CS	28.93
Travis AFB CA	60 AW	28.93
Yokota AB JA	475 CS	19.28

1.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have HF receiver equipment maintenance responsibilities.

2. Title. Positive Mission Variance for HF Transceiver Equipment Maintenance.

2.1. Definition. Maintenance of HF transceiver equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

2.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	71.32
Andersen AFB GU	633 CS	85.58
Andrews AFB MD	89 CG	199.69
Barksdale AFB LA	46 CS	71.32
Beale AFB CA	9 CS	28.53
Bitburg AB GE	36 CS	99.85
Buchel AB GE	7502 MS	28.53
Cannon AFB NM	27 CS	71.32
Charleston AFB SC	437 CS	85.58
Columbus AFB MS	14 CS	42.79

Davis-Monthan AFB AZ	836 CS	128.38	
Dover AFB DE	436 CS	28.53	
Dyess AFB TX	96 CS		57.06
Edwards AFB CA	650 CCSG		171.17
Eglin AFB FL	646 CCSG		142.64
Eielson AFB AK	343 CS	85.58	
Ellsworth AFB SD	28 CS		42.79
Elmendorf AFB AK	603 CS	256.75	
Fairchild AFB WA	92 CS		28.53
Ghedi AB IT	7402 MS		42.79
Grand Forks AFB ND	319 CS	57.06	
Griffiss AFB NY	416 CS	228.22	
Hickam AFB HI	15 CS		71.32
Hill AFB UT	649 CCSG	128.38	
Holloman AFB NM	49 CS		71.32
Howard AFB PN	24 CS		542.03
Hurlburt Fld FL	834 CS	42.79	
K I Sawyer AFB MI	410 CS	57.06	
Kadena AB JA	18 CS		228.22
Keesler AFB MI	81 CS		57.06
Kelly AFB TX	651 CCSG	114.11	
Kirtland AFB NM	377 CCSG		28.53
Kleine Brogel AB BE	7361 MS		42.79
Kunsan AB KOR	8 CS	42.79	
Lajes FLD PO	65 SW	99.85	
Langley AFB VA	1 CS	128.38	
Laughlin AFB TX	647 CS	42.79	
Little Rock AFB AR	314 CS	99.85	
Luke AFB AZ	58 CS		42.79
MacDill AFB FL	56 CS		99.85
Malmstrom AFB MT	341 CS	99.85	
Maxwell AFB AL	502 CS	99.85	
McClellan AFB CA	652 CCSG	71.32	
McConnell AFB KS	384 CS	28.53	
Minot AFB ND	2150 CS		85.58
Misawa AB JA	432 CS	156.90	
Moody AFB GA	347 CS	99.85	
Mountain Home AFB ID	366 CS	128.38	
Nellis AFB NV	554 CG	228.22	
Offutt AFB NE	55 CG		99.85
Plattsburgh AFB NY	380 CS	42.79	
Pope AFB SC	317 CS	156.90	
RAF Alconbury UK	10 CS		213.96
RAF Lakenheath UK	48 CS		71.32
RAF Mildenhall UK	513 CS	156.90	
Randolph AFB TX	12 CS		85.58
Reese AFB TX	64 CS		42.79
Robins AFB GA	653 CCSG		85.58
Scott AFB IL	375 AW		128.38
Seymour-Johnson AFB NC	2021 CS		42.79
Shaw AFB SC	363 CS	85.58	
Spangdahlem AB GE	52 CS		42.79
Tinker AFB OK	654 CCSG		128.38
Travis AFB CA	60 AW		114.11

Vance AFB OK	71 CS		42.79
Volkel AB NL	7362 MS	42.79	
Whiteman AFB MO	351 CS	71.32	
Wright Patterson AFB OH	645 CCSG		28.53
Yokota AB JA	475 CS	85.58	

2.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have HF transceiver equipment maintenance responsibilities.

3. Title. Positive Mission Variance for UHF Transceiver (Group A) Equipment Maintenance.

3.1. Definition. Maintenance of UHF transceiver equipment (Group A) encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

3.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS	
Andrews AFB MD	89 CG	6.43	
Beale AFB CA	9 CS		64.29
Dyess AFB TX	96 CS		85.57
Hickam AFB HI	15 CS	6.43	
Holloman AFB NM	49 CS		12.86
Lajes FLD PO	65 SW	38.57	
Misawa AB JA	432 CS	12.86	
Offutt AFB NE	55 CG		12.86
Plattsburgh AFB NY	380 CS	77.14	
Shaw AFB SC	363 CS	12.86	
Whiteman AFB MO	351 CS	38.57	

3.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have UHF transceiver (Group A) equipment maintenance responsibilities.

4. Title. Positive Mission Variance for Recorder/Reproducer (Group A) Equipment Maintenance.

4.1. Definition. Maintenance of recorder/reproducer (Group A) equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

4.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Elmendorf AFB AK	603 CS	29.34
Hill AFB UT	649 CCSG	29.34
Langley AFB VA	1 CS	58.69

4.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have recorder/reproducer (Group A) equipment maintenance responsibilities.

5. Title. Positive Mission Variance for Control Tower Monitor (Group A) Equipment Maintenance.

5.1. Definition. Maintenance of control tower monitor (Group A) equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation. You should NOT have a count for Control Tower Monitor (Group A (X11)) and Control Tower Monitor (Group B (V5)).

5.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Kadena AB JA	18 CS	36.08
RAF Alconbury UK	10 CS	36.08

5.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have control tower monitor (Group A) equipment maintenance responsibilities.

6. Title. Positive Mission Variance for Facsimile Equipment Maintenance.

6.1. Definition. Maintenance of facsimile equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

6.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andersen AFB GU	633 CS	65.21
Bitburg AB GE	36 CS	52.17
Griffiss AFB NY	416 CS	13.04
Hickam AFB HI	15 CS	143.46
Howard AFB PN	24 CS	326.05
K I Sawyer AFB MI	410 CS	13.04
Kadena AB JA	18 CS	65.21
Kunsan AB KOR	8 CS	39.13
Lajes FLD PO	65 SW	26.08
Langley AFB VA	1 CS	26.08
Minot AFB ND	2150 CS	13.04
Misawa AB JA	432 CS	26.08
Moron AB SP	7120 AB	13.04
Mountain Home AFB ID	366 CS	13.04
Offutt AFB NE	55 CG	13.04
Osan AB KOR	51 CS	2.52
Pope AFB NC	317 CS	26.08
RAF Alconbury UK	10 CS	52.17
RAF Lakenheath UK	48 CS	39.13
RAF Mildenhall UK	513 CS	39.13
Reese AFB TX	64 CS	13.04
Seymour-Johnson AFB NC	2021 CS	13.04
Shaw AFB SC	363 CS	26.08
Spangdahlem AB GE	52 CS	26.08
Tinker AFB OK	654 CCSG	26.08
Yokota AB JA	18 CS	65.21

6.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have facsimile equipment maintenance responsibilities.

7. Title. Positive Mission Variance for Field Phone Equipment Maintenance.

7.1. Definition. Maintenance of field phone equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation. For Little Rock AFB AR: Do NOT include ABGD/SP equipment, this equipment is included in the Volant Scorpion variance.

7.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	62.15
Andrews AFB MD	89 CG	86.05
Beale AFB CA	9 CS	1.61
Cannon AFB NM	427 CS	28.68
Charleston AFB SC	437 CS	49.40
Columbus AFB MS	14 CS	20.72
Davis-Monthan AFB AZ	836 CS	157.77
Dover AFB DE	436 CS	180.08
Edwards AFB CA	650 CCSG	6.37
Eglin AFB FL	646 CCSG	124.30
Grand Forks AFB ND	319 CS	9.56
Hill AFB UT	649 CCSG	97.21
Holloman AFB NM	49 CS	63.74
Howard AFB PN	31 CS	3.19
Hurlburt Fld FL	834 CS	38.25
K I Sawyer AFB MI	410 CS	3.19
Kadena AB JA	18 CS	1.59
Lackland AFB TX	37 CS	124.30
Lajes FLD PO	65 SW	3.19
Langley AFB VA	1 CS	54.18
Little Rock AFB AR	314 CS	44.62
Luke AFB AZ	58 CS	46.21
McClellan AFB CA	652 CCSG	31.87
McGuire AFB NJ	438 AW	60.56
Minot AFB ND	2150 CS	17.53
Moody AFB GA	347 CS	30.28
Mountain Home AFB ID	366 CS	55.78
Nellis AFB NV	554 CS	124.30
Offutt AFB NE	55 CG	63.74
Plattsburgh AFB NY	380 CS	4.78
Pope AFB NC	317 CS	52.59
RAF Alconbury UK	10 CS	1.59
RAF Lakenheath UK	48 CS	6.37
RAF Mildenhall UK	513 CS	90.84
Reese AFB TX	64 CS	3.19
Seymour-Johnson AFB NC	2012 CS	70.12
Shaw AFB SC	363 CS	63.74
Spangdahlem AB GE	52 CS	1.59
Tinker AFB OK	654 CCSG	84.46
Travis AFB CA	60 AW	66.93
Vance AFB OK	71 CS	19.12
Wright Patterson AFB OH	645 CCSG	94.02
Yokota AB JA	475 CS	47.81

7.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have field phone equipment maintenance responsibilities.

8. Title. Positive Mission Variance for Phone Patch Equipment Maintenance.

8.1. Definition. Maintenance of phone patch equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

8.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	7.70
Andersen AFB GU	633 CS	2.57
Andrews AFB MD	89 CG	28.22
Beale AFB CA	9 CS	2.57
Bitburg AB GE	36 CS	5.13
Cannon AFB NM	27 CS	2.57
Charleston AFB SC	437 CS	5.13
Columbus AFB MS	14 CS	2.57
Davis-Monthan AFB AZ	836 CS	20.52
Dover AFB DE	436 CS	10.26
Dyess AFB TX	96 CS	7.70
Eglin AFB FL	646 CCSG	51.30
Elmendorf AFB AK	603 CS	25.65
Hill AFB UT	649 CCSG	10.26
Holloman AFB NM	49 CS	5.13
Hurlburt Fld FL	834 CS	7.70
K I Sawyer AFB MI	410 CS	2.57
Lackland AFB TX	37 CS	7.70
Langley AFB VA	1 CS	41.04
Little Rock AFB AR	314 CS	17.96
MacDill AFB FL	56 CS	7.70
McClellan AFB CA	652 CCSG	2.57
McGuire AFB NJ	438 AW	5.13
Misawa AB JA	432 CS	33.35
Moody AFB GA	347 CS	2.57
Mountain Home AFB ID	366 CS	20.52
Nellis AFB NV	554 CS	41.04
Offutt AFB NE	55 CG	10.26
Plattsburgh AFB NY	380 CS	2.57
Pope AFB NC	317 CS	7.70
RAF Alconbury UK	10 CS	10.26
Robins AFB GA	653 CCSG	5.13
Seymour-Johnson AFB NC	2012 CS	10.26
Shaw AFB SC	363 CS	7.70
Tinker AFB OK	654 CCSG	12.83
Travis AFB CA	60 AW	20.52
Tyndall AFB FL	325 CS	2.57
Yokota AB JA	475 CS	7.70

8.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have phone patch maintenance responsibilities.

9. Title. Positive Mission Variance for LF Receiver Equipment Maintenance (AN/FRR-98, AN/GRC-219 (GWEN)).

9.1. Definition. Maintenance of LF receiver equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

9.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	10.36
Barksdale AFB LA	46 CS	41.44
Beale AFB CA	9 CS	20.72
Dyess AFB TX	96 CS	20.72
Eielson AFB AK	343 CS	31.08
Ellsworth AFB SD	28 CS	20.72
Fairchild AFB WA	492 CS	20.72
Griffiss AFB NY	416 CS	20.72
K I Sawyer AFB MI	410 CS	20.72
McConnell AFB KS	384 CS	20.72
Offutt AFB NE	55 CG	20.72
Plattsburgh AFB NY	380 CS	20.72
Robins AFB GA	653 CCSG	20.72
Travis AFB CA	60 AW	10.36
Whiteman AFB MO	351 CS	10.36

9.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have LF receiver equipment maintenance responsibilities.

10. Title. Positive Mission Variance for Mobile Antenna Equipment Maintenance (e.g. AN/GRA-4).

10.1. Definition. Maintenance of mobile antenna equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

10.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Barksdale AFB LA	46 CS	23.93
Beale AFB CA	9 CS	4.79
Dover AFB DE	436 CS	14.36
Dyess AFB TX	96 CS	23.93
Edwards AFB CA	650 CCSG	9.57
Eglin AFB FL	646 CCSG	4.79
Ellsworth AFB SD	28 CS	9.57
Eielson AFB AK	343 CS	14.36
Grand Forks AFB ND	319 CS	38.29
Griffiss AFB NY	416 CS	9.57
Hickam AFB HI	15 CS	43.07
Hill AFB UT	649 CCSG	33.57
Howard AFB PN	24 CS	9.57
Kadena AB JA	18 CS	4.79
K I Sawyer AFB MI	410 CS	4.79
Kunsan AB KOR	8 CS	23.93
Langley AFB VA	1 CS	23.93

Luke AFB AZ	58 CS		4.79
MacDill AFB FL	56 CS	9.57	
Malmstrom AFB MT	341 CS		9.57
McClellan AFB CA	652 CCSG	9.57	
McConnell AFB KS	384 CS		14.36
Minot AFB ND	2150 CS	28.72	
Misawa AB JA	432 CS		23.93
Mountain Home AFB ID	366 CS		9.57
Nellis AFB NV	554 CS		9.57
Offutt AFB NE	55 CG		57.43
Osan AB KOR	51 CS	38.29	
Plattsburgh AFB NY	380 CS		19.14
RAF Lakenheath UK	48 CS		23.93
Robins AFB GA	653 CCSG	19.14	
Seymour-Johnson AFB NC	2012 CS	14.36	
Shaw AFB SC	363 CS		38.29
Yokota AB JA	475 CS		43.07

10.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance work centers that have mobile antenna equipment maintenance responsibilities.

11. Title. Positive Mission Variance for AFSATCOM Equipment Maintenance (AN/GSC-42).

11.1. Definition. Maintenance of AFSATCOM equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

11.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS	
Altus AFB OK	443 CS		21.74
Beale AFB CA	9 CS	65.22	
Dyess AFB TX	96 CS		21.74
Fairchild AFB WA	492 CS	21.74	
Griffiss AFB NY	416 CS		21.74
K I Sawyer AFB MI	410 CS	21.74	
McChord AFB WA	62 CS		43.48
McConnell AFB KS	384 CS		21.74
Mountain Home AFB ID	366 CS		21.74
Nellis AFB NV	554 CS		43.48
Offutt AFB NE	55 CG		21.74
Plattsburgh AFB NY	380 CS		21.74
Robins AFB GA	653 CCSG	21.74	
Seymour-Johnson AFB NC	2012 CS	21.74	
Shaw AFB SC	363 CS		43.48

11.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have AFSATCOM equipment maintenance responsibilities.

12. Title. Positive Mission Variance for BRITE II/DBRITE Equipment Maintenance (AN/GPA-133, FA-10221/2/3/4).

12.1. Definition. Maintenance of BRITE II/DBRITE equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

12.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Barksdale AFB LA	46 CS	52.84
Davis-Monthan AFB AZ	836 CS	52.84
Dyess AFB TX	96 CS	52.84
Edwards AFB CA	650 CCSG	52.84
Hurlburt Field FL	834 CS	52.84
Kelly AFB TX	651 CCSG	52.84
McChord AFB WA	62 CS	52.84
McClellan AFB CA	652 CCSG	52.84
McConnell AFB KS	384 CS	52.84
Pope AFB NC	317 CS	52.84
Randolph AFB TX	12 CS	52.84
Tinker AFB OK	654 CCSG	52.84

12.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have BRITE II/DBRITE equipment maintenance responsibilities.

13. Title. Positive Mission Variance for Range Scoring Equipment Maintenance.

13.1. Definition. Maintenance of range scoring equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

13.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Misawa AB JA	432 CS	95.88

13.3 Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance element at the 432 CS, Misawa AB JA.

14. Title. Positive Mission Variance for Airfield Survival Measures (ASM) Systems Equipment Maintenance.

14.1 Definition. Maintenance of ASM equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

14.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Bitburg AB GE	36 CS	82.55
RAF Alconbury UK	10 CS	82.55
RAF Lakenheath UK	48 CS	82.55
Spangdahlem AB GE	52 CS	82.55

14.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance work centers having airfield survival measures systems equipment maintenance responsibilities.

15. Title. Positive Mission Variance for URC-110 and Alternate Command Post (ALCDP) Deployment.

15.1. Definition. Deploys and provides support during deployment for the ALCDP.

15.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Elmendorf AFB AK	603 CS	37.33
Misawa AB JA	432 CS	24.70
Offutt AFB NE	55 CG	12.35

15.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance elements having ALCDP maintenance responsibility.

16. Title. Positive Mission Variance for Deviation for Permanent PA Systems Maintenance.

16.1. Definition. The higher maintenance man-hours for the work centers listed below are due to the higher level of service required.

16.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andersen AFB GU	633 CS	48.21
Dover AFB DE	436 CS	1.61
Hickam AFB HI	15 CS	50.00
Holloman AFB NM	49 CS	136.65
Kadena AB JA	18 CS	54.17
MacDill AFB FL	56 CS	4.32
Maxwell AFB AL	502 CS	32.00
Misawa AFB JA	432 CS	191.00
Mountain Home AFB ID	366 CS	2.01
Nellis AFB NV	554 CS	24.36
Osan AB KOR	51 CS	86.60
RAF Lakenheath UK	48 CS	53.85
RAF Mildenhall UK	513 CS	9.81
Spangdahlem AB GE	52 CS	3.68
Tyndall AFB FL	325 CS	54.25
USAFA Colorado Springs CO	54 CS	288.92
Yokota AB JA	475 CS	27.00

16.3. Applicability. This variance applies to all the objective wing bases having Ground (Base) Radio Maintenance work centers that are required to provide the higher level of service for permanent PA.

17. Title. Positive Mission Variance for GWEN QAE.

17.1. Definition. Evaluates the support contract for GWEN relay nodes (AN/GRC-217). This encompasses traveling to and from relay node sites and observing contractor performing maintenance.

17.1. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	160.70

Beale AFB CA	9 CS	160.70	
Dyess AFB TX	96 CS	160.70	
Fairchild AFB WA	492 CS	160.70	
Grand Forks AFB ND	319 CS	160.70	
Griffiss AFB IN	416 CS	160.70	
Little Rock AFB AR	314 CS	160.70	
Malmstrom AFB MT	341 CS	160.70	
Offutt AFB NE	55 CG	160.70	
Robins AFB GA	653 CCSG	160.70	
Scott AFB IL	375 CG		160.70

17.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance work centers that have GWEN QAE responsibility.

18. Title. Positive Mission Variance for Regency Net (TRC-179/MSC-64) Support.

18.1. Definition. Maintenance and operation of the Regency Net (TRC-179/MSC-64) supporting HQ USEUCOM and HQ USAFE's Command and Control HF radio net.

18.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS	
Bitburg AB GE	36 CS	803.50	
Buchel AB GE	7502 MS		803.50
Ghedi AB IT	7402 MS		803.50
Kleine Brogel AB BE	7361 MS	803.50	
RAF Alconbury UK	10 CS	803.50	
RAF Lakenheath UK	48 CS	803.50	
RAF Mildenhall UK	513 CS	803.50	
Spangdahlem AB GE	52 CS	803.50	
Volkel AB NL	7362 MS		803.50

18.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance work centers that support Regency Net.

19. Title. Positive Mission Variance for Rapid UHF Satellite Communications (RUSCOM)/AFSATCOM Support.

19.1. Definition. RUSCOM provides an in-garrison/deployable radio package that provides voice, data, and facsimile support to the ACC/CC.

19.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Langley AFB VA	1 CS	642.80

19.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance element at the 1 CS, Langley AFB VA.

20. Title. Positive Mission Variance for Volant Scorpion Support.

20.1. Definition. Maintenance of equipment associated with Volant Scorpion. Maintenance encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

20.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Little Rock AFB AR	314 CS	160.7

20.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance element at the 314 CS, Little Rock AFB AR.

21. Title. Positive Mission Variance for Copper Flag/William Tell Exercise Support.

21.1. Definition. Exercise support during Copper Flag/William Tell encompasses repairing equipment malfunctions, ordering parts, and completing appropriate documentation.

21.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Tyndall AFB FL	325 CS	18.00

21.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance element at the 325 CS, Tyndall AFB FL.

22. Title. Positive Mission Variance for USSOUTHCOM Support.

22.1. Definition. Provides Satellite/Line-of-Sight (SAT/LOS) communications to support USSOUTHCOM counter drug operations.

22.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Howard AFB PN	24 CS	482.10

22.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance element at 24 CS, Howard AFB PN.

23. Title. Positive Mission Variance for Cryptological (CRYPTO) Equipment Maintenance (AN/KG-84).

23.1. Definition. Maintenance of cryptological equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

23.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Beale AFB CA	9 CS	3.15
Columbus AFB MS	14 CS	1.35
Offutt AFB NE	55 CG	0.90
Randolph AFB TX	12 CS	1.80

Robins AFB GA	653 CCSG	0.45
Vance AFB	71 CS	1.80

23.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have cryptological equipment maintenance responsibilities.

24. Title. Positive Mission Variance for Maintenance of Runway Surveillance Unit (RSU) Consoles Designed by EID for ATC.

24.1. Definition. Maintenance of EID designed RSU console equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

24.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Columbus AFB MS	14 CS	67.74
Laughlin AFB TX	647 CS	90.31
Randolph AFB TX	12 CS	67.74
Reese AFB TX	64 CS	67.74
Vance AFB OK	71 CS	90.31

24.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance work centers that have EID designed ATC RSU consoles.

25. Title. Mission Variance for Closed Circuit Television (CCTV) Maintenance.

25.1. Definition. Maintenance of closed circuit television equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

25.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Langley AFB VA	1 CS	482.10
McConnell AFB KS	384 CS	50.00
Nellis AFB NV	554 CS	321.40

25.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have closed circuit television responsibilities.

26. Title. Positive High Frequency Regional Broadcast (HFRB) Maintenance.

26.1. Definition. Maintenance of HF regional broadcast equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

26.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andersen AFB GU	633 CS	75.00

26.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have HF regional broadcast equipment maintenance responsibilities.

27. Title. Positive Mission Variance for Nonhardened Antenna Maintenance.

27.1. Definition. Maintenance of nonhardened antennas encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

27.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Barksdale AFB LA	46 CS	17.90
Charleston AFB SC	437 CS	18.59
Dyess AFB TX	96 CS	85.51
Edwards AFB CA	650 CCSG	154.52
Eglin AFB FL	646 CCSG	7.45
Grand Forks AFB ND	319 CS	19.33
Hill AFB UT	649 CCSG	48.25
Maxwell AFB AL	502 CS	5.38
Misawa AB JA	432 CS	31.62
Offutt AFB NE	55 CG	21.70
Robins AFB GA	653 CCSG	22.47
Wright Patterson AFB OH	645 CCSG	15.74

27.3. Applicability. This variance applies to all objective wing bases having Ground (Base) Radio Maintenance elements that have nonhardened antenna maintenance responsibilities.

28. Title. Positive Mission Variance for Inter Island Travel.

28.1. Definition. Performs inter island travel to support Ground (Base) Radio Equipment Maintenance.

28.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Hickam AFB HI	15 CS	25.71

28.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance elements that have inter island travel responsibilities.

29. Title. Positive Mission Variance for Secure Communications Systems Maintenance.

29.1. Definition. The Ground (Base) Radio Maintenance work center will assume Secure Communications Systems maintenance responsibilities at bases where the secure communications maintenance work centers earn only one (1) manpower authorization. This variance provides an effective means of satisfying the National Security Agency's mandatory Two Person Integrity (TPI) with the least amount of manpower assigned.

29.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Altus AFB OK	443 CS	135.30
Charleston AFB NC	437 CS	140.61
Dover AFB DE	436 CS	131.96
Keesler AFB MS	81 CS	99.45
King Salmon Aprt AK	643 SPTS	159.11

Laughlin AFB TX	647 CS	20.38	
McConnell AFB KS	384 CS		90.21
Moody AFB GA	347 CS		91.09
Moron AB SP	7120 ABF	30.39	
Mt Home AFB ID	366 CS		90.84
Nellis AFB NV	554 CS	93.23	
Plattsburgh AFB NY	380 CS		75.66
Pope AFB SC	317 CS		78.20

29.3. Applicability. This variance applies to the objective wing Ground (Base) Radio Maintenance elements that have Secure Communications Systems Maintenance responsibilities.

30. Title. Positive Mission Variance for LMR Maintenance.

30.1. Definition. Maintenance of LMRs encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

30.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Lajes Fld	65 CS	482.1 (constant)
Kirtland AFB NM	377 CCSG	321.4 (constant)

30.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Lajes Field that has LMR maintenance responsibilities due to geographic location and has USAF approval.

31. Title. Positive Mission Variance for SENEX Maintenance.

31.1. Definition. Maintenance of SENEX equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

31.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	803.5 (constant)

31.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has SENEX equipment maintenance responsibilities.

32. Title. Positive Mission Variance for Global Radio Maintenance.

32.1. Definition. Maintenance of Global Radio equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

32.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	482.1 (constant)

32.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has Global Radio equipment maintenance responsibilities.

33. Title. Positive Mission Variance for E-System Console Equipment Maintenance.

33.1. Definition. Maintenance of E-System console equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

33.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	2249.80 (constant)

33.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has E-Systems console equipment maintenance responsibilities.

34. Title. Positive Mission Variance for SIS.

34.1. Definition. Maintenance of SIS equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

34.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	160.7 (constant)

34.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has SIS equipment maintenance responsibilities.

35. Title. Positive Mission Variance for MARS/SITFA Ancillary Equipment Maintenance.

35.1. Definition. Maintenance of MARS/SITFA ancillary encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

35.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	41.5 (constant)

35.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has MARS/SITFA ancillary equipment maintenance responsibilities.

36. Title. Positive Mission Variance for E-System Network Control Station.

36.1. Definition. Maintenance of E-System Network Control Station encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

36.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Andrews AFB MD	89 CS	642.8 (constant)

36.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Andrews AFB that has E-Systems Network Control Station maintenance responsibilities.

37. Title. Positive Mission Variance for Base Installation Security System (BISS) Equipment Maintenance.

37.1. Definition. Maintenance of BISS equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

37.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Buchel AB GE	7502 MS	321.4 (constant)
Ghedi AB IT	7402 MS	321.4 (constant)
Kleine Brogel AB BE	7361 MS	321.4 (constant)
Volkel AB NL	7362 MS	321.4 (constant)

37.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance elements that have BISS equipment maintenance responsibilities.

38. Title. Positive Mission Variance for Low Frequency (LF) Transmitter/Receiver (GRC-218 Input/Output) Equipment Maintenance.

38.1. Definition. Maintenance of LF transmitter/receiver equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

38.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Offutt AFB NE	55 CG	7.75

38.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Offutt AFB that has LF transmitter/receiver equipment maintenance responsibilities.

39. Title. Positive Mission Variance for Improved High Altitude Radiation Detection System (IHARDS) Equipment Maintenance.

39.1. Definition. Maintenance of IHARDS equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

39.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Offutt AFB NE	55 CG	3.37

39.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Offutt AFB that has IHARDS equipment maintenance responsibilities.

40. Title. Positive Mission Variance for High Frequency (HF) Transmitter/Receiver (GRC-212 Alert Control Panel) Equipment Maintenance.

40.1. Definition. Maintenance of HF transmitter/receiver equipment encompasses accomplishing PMIs, repairing equipment malfunctions, modifying equipment, ordering parts, and completing appropriate documentation.

40.2. Impact:

LOCATION	UNIT	MONTHLY MAN-HOURS
Offutt AFB MD	55 CG	0.90

40.3. Applicability. This variance applies to the Ground (Base) Radio Maintenance element at Offutt AFB that has HF transmitter/receiver equipment maintenance responsibilities.

GROUND (BASE) RADIO MAINTENANCE

PROCESS ANALYSIS SUMMARY (By Process)

The following provides the core man-hours and fractional manpower by core process (core processes are in prioritized order and associated Indirect man-hours have been included in each process):

PROCESS TITLE	CORE MHRS	FRACTIONAL MANPOWER
Performs Equipment Repair	358.1909	2.2289
Performs Equipment Preventive Maintenance	331.9677	2.0658
Performs Equipment Parts Acquisition	39.1419	.2435
Performs Travel	121.9451	.7589
Performs Equipment Modification	20.9451	.1303
Performs Minor Equipment Instal-lation/Removal	28.0152	.1743
Performs Instal-lations of Permanent PA and Intercom Maintenance Systems	9.1782	.0571
Provides Portable PA Support	87.6096	.5452
Core Process Total Man-hours and Fractional Manpower	997.0100	6.2042

Note: Projected Workload (Frequency) column was not used because it was not logical for this element. Equipment items are not calculated collectively but are calculated individually by equipment groups as depicted in attachment 7 under the "CORE WORKLOAD" column.

GROUND (BASE) RADIO MAINTENANCE

PROCESS ANALYSIS SUMMARY (By Equipment)

The following provides a detail breakout of core man-hours and fractional manpower requirements for each of the core processes by equipment groups:

PROCESS TITLE	WLF TITLE	CORE MHRS	CORE WORKLOAD	FRACTIONAL MANPOWER
Performs Equipment Repair	A UHF/VHF Transmitter Maintained	1.8808	28	.3277
	A UHF/VHF Receiver Maintained	1.5682	28	.2732
	A VHF Transceiver Maintained	2.0511	6	.0766
	A UHF Transceiver Maintained	2.7993	5	.0871
	A UHF/VHF Transceiver Maintained	.1533	2	.0019
	A Recorder/ Reproducer (Group B) Maintained	6.7058	6	.2504
	A Control Monitor (Group A) Maintained	2.7177	5	.0846
	A Control Monitor (Group B) Maintained	2.2226	2	.0277
	A External Linear Power Amplifier Maintained	1.8233	10	.1135

PROCESS TITLE	WLF TITLE	CORE MHRS	CORE WORKLOAD	FRACTIONAL MANPOWER
	A Antenna Tuning Unit Coupler Maintained	.1326	7 .0058	
	A Control Tower Monitor (Group B) Maintained	43.0863	1 .2681	
	A RAPCON Position Maintained	8.5228	12 .6364	
	A Console Maintained	3.0509	1 .0190	
	A Runway Surveillance Unit Maintained	8.4393	1 .0525	
	A Comm Patch Panel Maintained	.3647	2 .0045	
Performs Equipment Preventive Maintenance	A UHF/VHF Transmitter Maintained	1.5745	28 .2743	
	A UHF/VHF Receiver Maintained	.6402	28 .1115	
	A VHF Transceiver Maintained	1.1059	6 .0413	
	A UHF Transceiver Maintained	1.8202	5 .0566	
	A UHF/VHF Transceiver Maintained	1.7281	2 .0215	
	A Recorder/ Reproducer (Group B) Maintained	19.6683	6 .7343	

PROCESS TITLE	WLF TITLE	CORE MHRS	CORE WORKLOAD	FRACTIONAL MANPOWER
	A Control Monitor (Group A) Maintained	2.3211	5	.0722
	A Control Monitor (Group B) Maintained	1.9044	2	.0237
	A External Linear Power Amplifier Maintained	3.0483	10	.1900
	A Antenna Tuning Unit Coupler Maintained	.8024	7	.0350
	A Control Tower Monitor (Group B) Maintained	9.7557	1	.0607
	A RAPCON Position Maintained	2.2195	12	.1657
	A Console Maintained	7.5669	1	.0471
	A Runway Surveillance Unit Maintained	29.1364	1	.1813
	A Comm Patch Panel Maintained	4.0733	2	.0507
Performs Equipment Parts Acquisition	A UHF/VHF Transmitter Maintained	.3592	28	.0626
	A UHF/VHF Receiver Maintained	.3592	28	.0626
	A VHF Transceiver	.3592	6	.0134

PROCESS TITLE	WLF TITLE	CORE MHRS	CORE WORKLOAD	FRACTIONAL MANPOWER
	Maintained			
	A UHF Transceiver Maintained	.3592	5	.0112
	A UHF/VHF Transceiver Maintained	.3493	2	.0043
	A Recorder/ Reproducer (Group B) Maintained	.3489	6	.0130
	A Control Monitor (Group A) Maintained	.3113	5	.0097
	A Control Monitor (Group B) Maintained	.2657	2	.0033
	A External Linear Power Amplifier Maintained	.2908	10	.0181
	A Antenna Tuning Unit Coupler Maintained	.3055	7	.0133
	A Control Tower Monitor (Group B) Maintained	.2725	1	.0017
	A RAPCON Position Maintained	.2932	12	.0219
	A Console Maintained	.4211	1	.0026
	A Runway Surveillance Unit Maintained	.2889	1	.0018

PROCESS TITLE	WLF TITLE	CORE MHRS	CORE WORKLOAD	FRACTIONAL MANPOWER
	A Comm Patch Panel Maintained	.3241	2	.0040
Performs Travel	Average Monthly Miles Traveled	.1122	1087	.7589
Performs Equipment Modification	A UHF/VHF Transmitter Maintained	.1846	28	.0322
	A UHF/VHF Receiver Maintained	.1846	28	.0322
	A VHF Transceiver Maintained	.1846	6	.0069
	A UHF Transceiver	.1846	5	.0057